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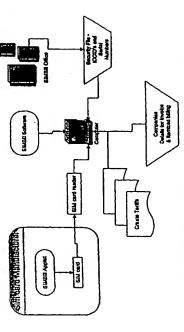
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(74) Agent: CULLEN & CO.; Level 26, 239 George Street, BRISBANE, Queensland 4000 (AU).

(54) Title: METHODS AND APPARATUS FOR MONITORING AND RETRIEVING INFORMATION AND TIME USAGE



phones and SIM cercit, SIM card reader/writer, host processor and software for the reading, writing and programming of SIM cards.

A user hining a telephone is supplied a telephone with a programmed SIM card. The SIM card records billing information for calls made using the telephone which are later charged to the user. The SIM card may alternatively store a credit amount from which call charges are deducted, on the SIM card the liver may create and alter credit limits, some customer information, set tariffs for calls and information used to block distillucted calls. method of billing usage of hired telephones and apparatus therefor. A hirer is supplied with a plurality WO 02/37822 A1

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# METHODS AND APPARATUS FOR MONITORING AND RETRIEVING INFORMATION AND TIME USAGE

TECHNICAL FIELD

The present invention relates to methods and apparatus for monitoring and retrieving information on airtime usage and has particular relevance to monitoring and retrieving information using a SIM (subscriber identify module) card in conjunction with a GSM (global system for mobile communications) handset.

S

The following acronyms and the common meanings of same are

**GSM** Global System for Mobile Communications

incorporated in the description of the present invention;

2

Subscriber Identify Module SIM

Mobile Equipment

Over The Air

Short Message Service SMS

15

Application Program Interface ΑPI

Man-Machine Interface MM

Operating System S

Mobile Originated õ Mobile Terminated

₹

20

Network Code

Country Code ဗ္ဗ

BACKGROUND ART

A large number of countries of the world have sanctioned and facilitate the use of GSM telephones based on the use of SIM card

25

suitable for casual users by way of subscription. Monitoring and billing Whilst there is no problem in general monitoring the usage of portable telephones the present monitoring and technology

functions are generally operated by a centralised computer operated by the provider, 30

Telephone service providers are on tight margins and in order to

2

avoid the possibility of bad debts, and discontinuity of service at the inconvenience to the customer, there is a need for an instant billing or "recharge" system for casual line usage.

If for example a portable telephone was rented by a hotel rental car company or the like, when the telephone is returned it is desirable that all payments in relation to usage are settled at the time of the return.

S

The line provider's computer database for billing enquiries would not be directly accessible by the persons renting the telephone and settlement of an account is likely to be delayed or on a credit basis for that reason.

There have been a number of systems proposed for controlling cellular telephone usage some with accounting systems relating to usage.

United States Patent no. 5,761,624 entitled "Method and Apparatus for controlling and recording cellular phone transactions using an integrated circuit card" describes a cellular phone call management system using a microprocessor-controlled remote card reader interface for a cellular

15

telephone system to record calls onto a card as they are placed or received.

A microprocessor reads information from a card placed in the

remote card reader and ensures the card is valid.

The cellular telephone's transceiver logic bus is monitored to determine the transaction Information of a call as it is placed or received.

After the call is completed, the call transaction information is recorded on the card. When all calls are complete, the card is placed in a host card reader attached to a host computer where the call transaction Information is read from the card, processed, and written to a host storage

The call transactions may then be analyzed and reports may be generated and printed by host computer software.

device.

25

This methodology uses a so-called smart card, technologies allow for only minimal data storage does not re-tariff, requires specialised 30 equipment, and is designed for use at fixed locations. The system does not re-tariff calls or set call limits.

United States Patent no 5,631,947 entitled "Mobile telephone device for storing a plurality of changeable charge rates and time of limit data"

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describes a system where a mobile telephone is adapted for use as a rental phone.

It has an on-board computer which computes and stores telephone usage of the telephone.

Time and charge limits can be set for the telephone.

For example, the telephone can be set to disable itself for all or a selected category of incoming and outgoing calls after the passage of a predetermined time, and/or when the total usage charges reach set and adjusted remotely.

The telephone is for use in rental vehicles. The telephone is adapted to deliver its stored information when called and interrogated by use of a computer at a station when the rental vehicle is returned.

The telephone can be checked-out and enabled, and the time and charge limits adjusted, all form the same remote station.

The telephone is also particularly valuable in other types of rentals, such as in hotel or motel where the mobile telephone is housed in a portable briefcase or carrying case. The time and charge limits are enforced automatically, and can be changed remotely, as with other versions of the telephone device.

a prior renter of the phone; to give charge credits for "dropped calls"; and for selectively locking the phone to prevent unauthorised use for all but emergency calls, data transmission and similar calls.

This methodology is designed to be incorporated in rental so vehicles, charging is based on a set tariff, and requires and again requires a user to purchase additional specialised equipment

International patent application no. W096/24229 entitled "Mobile phone with internal accounting" describes a mobile phone system with a mobile phone having internal accounting capabilities for real time call debiting to account for the billing parameters of a mobile phone unit that is operated in a multi zone communication network with a complex rate structure, the mobile phone unit having an internal processor with accessible internal memory for storing the accounting program and call data for each call, the accounting

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program including an updateable rate table and a complex billing algorithm such as long distance calls, international calls, and charges, for roaming per day and/or per minute, where the account status of the mobile is calculated in real time for decrementing a debit account, the mobile debit phone having a signal for alerting the user of account status, the mobile phone system including communication system for activating and programming a new phone This methodology again involves specialised equipment and adaption and provide limited information and access regarding telephone usage. 10

unit and upgrading the account status in rate table in the phone unit over the

United States Patent no, 5,915,226 entitled "Prepaid smart card in a GSM based wireless telephone network and method of operating prepaid cards" describes a prepaid smart card to be used in a wireless telephone network, and methods of prepaying for wireless telephone services, as well as systems for operating a wireless telephone network with prepaid smart cards.

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telephones anonymously, and/or the payment by a user without having a The cards, methods and systems permit the use of wireless subscription.

20

The invention requires minimal changes to the existing wireless telephone network, yet provides security against abuse or fraudulent use of the telephone system. Additionally, promotional material may be provided with the prepayments, and persons may prepay into a subscriber's telephone. 25

This methodology is based on prepaid smart cards, does not allow for tariffs to the varied, and the cards used are not re-programmable. It also lacks a roaming feature.

based rental system which can be adopted by a user without the need to It is an objective of the present invention to provide a SIM card purchase specialised equipment and which provides a comprehensive and adaptable user accounting package. 30

It is a further object of the present invention to provide, a system

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store call and SMS usage to the EEPROM of the SIM, allow the then user to view call usage in metres via the MMI of the GSM handset, change tariffs or which will send tariffs and other relative information to the EEPROM of the SIM, and inter alia, bill call and SMN usage real-time with a pre-set balance,

generate a MO SMS notification message sent for new rental and low balance warning, contain a built-in memory corruption detection and correction other information stored in the EEPROM of the SIM via the SMS message,

Further objects and advantages of the present invention will become apparent from the ensuing description which is given by way of example only. 2

### DISCLOSURE OF INVENTION

According to the present invention there is provided a method of billing the usage of mobile telephones comprising the steps of:

(a) Entering a user program onto a SIM card,

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equired for rendering accounts and controlling the use of the mobile (b) Supplying a hirer with the programed SIM card and software telephones upon the termination of a hire period. The software enables the hirer or to set tariffs and credit limits,

independently of network suppliers. 20

The user program and software enables the hirer to add or deduct credit over the air using SMS systems.

The user program provides the hirer with the ability to;

- (a) create and alter credit limits,
- (b) store customer Information,

52

- (c) set tariffs for calls,
- (d) block disallowed cails.

The user program provides the hirer with the ability to allow free calls at its discretion.

- According to a further aspect of the present invention there is provided a SIM card resident cellular phone billing system for performing the aforesaid method the system comprlsing; 30
- (a) a host processor unit having a P.C. application, and

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(b) a SIM card reading apparatus adapted to access and applet associated with the SIM card, characterised in that the host processor at point of issue is programmable using the P.C. application to control the use of a cellular phone and on return of the cellular phone to its point of issue, and re entry of the SIM card reader, to read the SIM card and generate information as to its usage.

The program of the host processor can transfer information on call costs to the SIM card.

10 The program of the host processor can transfer information relating to the telephone user to the SIM card. The program of the host processor can read information stored on the SIM card relating to calls made, numbers dialled and tariffs associated with the calls.

15 The system can include a cellular phone modem which enables over the air programming and adding or amending credit balances of a SIM card. According to still further aspect of the present invention therefor there is provided a method of monitoring telephone airtime usage for rental customers comprising means for creating, deleting and editing tariff plans, means to read and write information to the EEPROM of a SIM via the SIM card reader, and means providing a security system for SIM rentals and creating an SMS message user data for changing information in the SIM, display and print call usage.

20

An application / program may be written in Java and embedded into a SIM card that supports version 2 of Sun's JavaCard and supports SIM Toolkit 2+, including event download.

The basic functionality of this application is to bill, restrict, and store call and SMS usage.

This application also has a pre-set balance that decrements for soch call and SMS message, when the balance is depleted the application restricts the subscriber from making another call or SMS message.

This application uses the event download of the SIM Toolkit from the ME to determine when a call is connected and disconnected.

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This application also uses the event download for a MO or MT SMS message.

This application reads and writes all information to the EEPROM of the SIM at the beginning, during, and at the end of a call.

This information is broken down into the meter, tariff, and call

tables.

The application displays the balance and call information (i.e.

number, charge, and tariff) to the MMI of the ME via the SIM Toolkit.

The subscriber has the ability to scroll through the calls and

10 SMS messages made and view the relative information.

The rental process consists of a SIM card with the embedded application, the ME, the SIM card reader and the Windows PC application.

The SIM card's EEPROM is initialized via the SIM card reader at

the time of rental (i.e. balance and tariffs).

15

The subscriber then proceeds to make calls and SMS messages

until the balance is depleted.

The MS and the SIM card is then returned by the Window PC application reading the calls and SMS messages made. This

application reading the calls and swis messages made, completes the rental processes.

20

A security risk may occur if the SIM card is removed from the MS and inserted into another MS that does not support event download. This problem can be solved if the SIM has the ability to check if the MS supports event download and if it doesn't lock the SIM. Another solution is to lock the SIM and MS at the network level.

There is no risk in roaming because the rental application has the ability to bill or restrict roaming. Therefore the SIM card should allow roaming.

25

The following tables in this section may be stored in EEPROM 30 that are used by the rental application. This information is read and written one record at a time.

**Table Meter** 

The meter table contains the balance and other setup information for

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the rental application. The size of the table is 11 bytes and there is only 1 record stored in EEPROM.

Bytes	Description	Length
1-2	Initialized	2
3-4	Balance	2
5	Seconds in cycle	
9	Minimum seconds	-
7	Cyclical call storage	-
6-8	Current call	2
10-11	Last call	2

Table Tariff

The tariff table contains the information for calculating the cost for a MT call, MO call, MT SMS message, or MO SMS message. The size of the table is 19 bytes and there are 100 records stored in EEPROM.

Bytes	Description	Length
1	Туре	-
2-3	Country code	2
4-5	Network code	2
9	Barred	-
7-8	International code	2
9-17	Pattern	6
18-19	Tariff	2

#### Table Call

10

The call table contains information of the call or SMS message that occurred. The size of the table is 20 bytes and there are 100 records stored in EEPROM.

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The state of the s	The second name of the second	
Bytes .	Description	Length
	Туре	-
•		
2-3	Country code	2
4-5	Network code	2
6-14	Number dialed	6
15-16	Tariff	2
17-18	Length	2
19-20	Charge	2

#### Functional Flow

This section describes the functional flows of the SIM based rental application.

#### Power On

The following diagram describes the functional flow for when the

SIM card powers on.

2

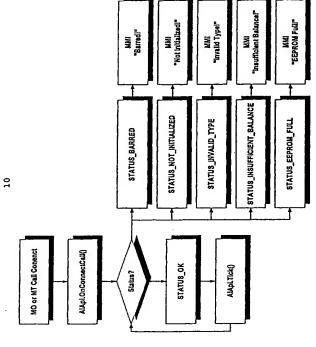


#### MO or MT Call Connect

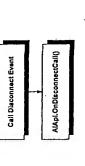
The following diagram describes the functional flow for a MO or

15 MT call connect.

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The following diagram describes the functional flow for a call Call Disconnect Call disconnect.



10

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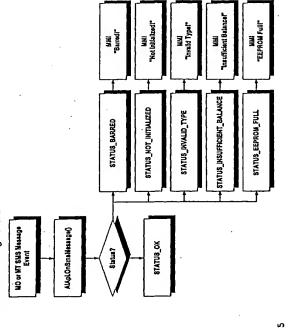
1

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# MO or MT SMS Message Event

The following diagram describes the functional flow of a MO or

MT SMS message event.



#### MM

The MMI for the rental application consists of the balance and display the call information. The MMI has the ability to scroll through the calls to display the information.

10

#### ΑЫ

The API methods are found in the class AlApi. The following methods are used to interface with the application.

15

Method On Power On

This function is required to be called when the SIM card powers

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,

on. This function reads table meter from EEPROM.

ξ Parameters

None

ξ Return Values

None.

This function is required to be called when the SIM card receives a connect event message. This function calculates the tariff of the call, determines if the call is barred, and saves data to EEPROM.

Method On Connect Call

10 & Parameters

bType Type of call (i.e. TYPE\_MT\_CALL or TYPE\_MO\_CALL). sCountryCode The current country code the MS registers from

the network.

sNetworkCode The current network code the MS registers from

the network.

13

bNumber Number dialled for a MO call:

sLengthOfCall Length of the number dialled for a MO call.

ک Return Values

Returns STATUS\_OK if the function succeeds and any other

20 value if the function fails.

**Method Tick** 

This function is required to be called when during a MO or MT call as frequently as possible. The number of ticks represents the number of seconds that have elapsed from the last time this function was called.

25 g Parameters

sNumberOffleks Number of seconds that have elapsed from the last time this function was called.

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13

ξ Return Values

Returns STATUS\_OK if the function succeeds and any other value if the function fails.

Method On Disconnect Call

This function is required to be called when the SIM card receives the disconnect event message. This function terminates the call.

ξ Parameters

None.

ξ Return Values

None.

2

Method On Sms Message

Processes the MT or MO SMS message.

ξ Parameters

bTypeType of message (i.e. TYPE\_MT\_SMS o

TYPE\_MO\_SMS).

12

sCountryCode The current country code the MS registers from the network.

sNetworkCode The current network code the MS registers from

the network.

20

ξ Return Values

Returns STATUS\_OK if the function succeeds and any other value if the function fails.

25

Retrieves the requested call record.

ξ Parameters

BNavigationType Navigation type.

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7

#### ξ Return Values

Returns STATUS\_OK if the function succeeds and any other value if the function falls,

# Method Get Data

Returns the ASCII representation of the data type requested.

#### **Parameters**

bType Type to represent in ASCII.

bBuffer Target buffer the ASCII in written to.

sSizeOfBuffer Size of the target buffer.

10

#### ک Return Values

Returns STATUS\_OK if the function succeeds and any other value if the function falls.

reference to the accompanying drawings with reference to the accompanying now be described Aspects of the present invention will drawings in whereith; 15

Figure 1: Is a schematic drawing of system components for a billing system according to the present invention, and

Floure 2; is a schematic drawing of a rental company operation

using the system of figure 1, and 20

Flaure 3: Is a schematic drawing of the use procedures of a hired telephone, and Figure 4; is a schematic drawing indicating the means by which a hired telephone is updated with a new credit, and

Figure 5; is a schematic drawing indicating the procedures adopted in closing off a hire period. 25

card reader. SIMBILL software is then entered into the users computer as will as the companies detalls. The provider sends on a security file to the users (SIMBILL) adds an applet to a SIM card and the card is entered into a users With respect to figure 1 of the drawing the service provider computer and the user is then able to create tariffs. 30

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As illustrated by figure 2 having selected a tariff and entered rental customer details the user enters a credit limit and rents a telephone. As is indicated by figure. 3 a number controls and checks can be made on the rental telephone and each call made is subject to the procedures and data mordals indicated.

is out on hire the user is able to SMS message the telephone and update As indicated by figure 4 whilst the telephone whist the telephone credits.

individual SIM cards can be placed in a reader and an up-to-the-minute it Finally as illustrated by figure 5 on return of the telephone email bili produced. 9

The provider (SIMBILL) user manual marked ATTACHMENT is annexed hereto for the purpose of further explanation of the present invention.

There are many advantages of this invention both technical and

commercial; including.

12

- The application is embedded into the SIM card so that it will work with any GSM that supports phase II of the SIMToolkit.
- Since the SIMRent application is embedded into the SIM card the handset is allowed to roam on any GSM network because the application 5
  - This real-time billing capability, roaming, isn't currently offered in the market has the ability to capture the location network information and bill real-time. place. 20
- current balance and calls/SMS usage on the MMI (Man-Machine-Interface) of The SIMRent application also allows the subscriber to view their <u>د.</u>
  - the handset. This on demand MMI capability is not currently available. 25
- The rental company has the ability to update and retrieve Information from the SIMRent application via the SMS (Short-Message-Service) message (i.e.update balance or retrieve calls).
- The SIMRent application has the capability to bill for national calls, international calls, emergency calls, roaming calls, and SMS messages real-time. The application can also barr any call or SMS message and restrict any usage when the balance is depleted. 9
- The SIMRent application allows for any hotel, rental car agency

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or network operator to easily and securely rent GSM handsets and provide a itemized bill of the usage on demand.

Aspects of the present invention have been described by way of example only and it will appreciated that modifications and additions thereto may be made without departing from the scope thereof, as defined in the appended claims.

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Setup	Registering	Completing the Setting	License fees	Information and prices	Forti	SIMBI		Sin C	æ	Setting up passy Descrip	Default settings	Entering the default settings	Tariff plans	Creating new tariffs Saving a tari	RENTING SIMS	PROGRAMING THB S RETURNING A SIM		Managing log files	SIMBILL Repots	. The Report Mess SIMBill Reports Lite 1
	Regh		Licer						Users		Defac		Tarlff	•	REN		Logs		SIMB	·

Introduction

2 • Registering

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Report Sorting Printing Report Exporting
Report Available ...

**GST/VAT Report** 

Total Involced Report

SMS Report

Rental/Return Report

Sales Report

Sales Report

Network Calls Report

Profit/Loss Report

Call Usage Report

Updating files by SMS over the air ..

Sanding SMS's Updaing Sim and over the eir.

Network Codes
Nerwork & County codes... SMS Messenger Intelling SMS Messenger

Trouble shooting Most common problems Glossary of Terms

Index

Simbili Simbili

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Installation

Setup

Connect the SIM CARD READER to a COM port on your computer and connection. The PS2 connection. The PS2 connection. The PS2 connection, that an adaptor to take the knyboard/mouse plug if required.

Insert CD and follow instructions.

The scaup wizard will guide you through the intallation process.

You must register SLABill before you can use the program.

The following steps will saster you in completing the registration.

After you have completed the SLABill installation. Double click the SLABill installation.

A SIMBII black serees and logon window will appear.

YOU CANNOT LOG ON AT THIS TIME. Logging on is only possible once you have registered your software and received a registration file.



Click "Cancel" on the logan window to hide it, FILE, SMS and HELP can be seen on the task bar.

Click on Help then click about.

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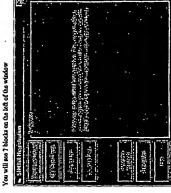
2

### Registering

Completing the registration form

Click on the SIMBIII Registration Icon Insert the installation CD,

This form must be completed prior to operation of any SIMBill software.



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Customer Detail

(CCID/8IM Cards

License Fees Computers

Payment Method

Rogistor

Click on "Customer Details"

Fill is all the detail fields.

You will be asked to confirm your e-mail address and security password.

The security paraword you exize will be the Administrator paraword required to logis to the program, eccess schnistration functions and fire my films emquires and registrations. Please remember this password as it is not





Click on "Save"

Click on "ICCID\S\im Cards"

Your Service provider should have supplied you with SIMBIII enabled sim cards If the sim cards are not SIMBIII enabled they will no operate on this

Enter one IOCID number then "OK"

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If you saved a  $\Omega a$  of your ICCD numbers elick Import and select the file this will add all your ICCD's.

Repeat until you have listed all your simeards

A counter on the top of the window will tall you how many you have entered along with a list of the numbers you have entered.

£ Please add every sim card's ICCID number by clicking the Add SIM The ICCID number eloudid by printed on the sim card or supplied to you by your service provider.

Now Click on "Computers"

Click on the first "Add PC" (SIMBIII) box.

Add the serial numbers of the SLABIII programs you obtain when you tustalled the SLABIII Schware not each Computer, (fou can get fat serial number by elleting on the SLABIIII tenn. Cancel the logon, click on high then about. The restell number is disployed on the bottom of the window) blake nure you add all SLABIII terial numbers from each computer.

Click on the recond "Add PC" (SIMBII Mersenger) box, Uapplicable

Add the SDABIII Metarager product terlul numbers obtained when you innulted SIMBIII Metarager in this box, Again ones serial number for each computer. You can obtain be obtain the serial number of the SDABIII Metarager I con on your deaktop, If the program is not registered a registration series will appear with the serial number displayed.

Add the SIMBILL Reports product serial numbers obtained when you installed SIMBIII Reports in this box, Again one serial number for each computer. Click on the third "Add PC" (SIMBIII SIMBIII Reports) box, Uapplicable

You can obtain these serial numbers by eliciting on the SDABIII Reports ion on your deathop, if the program is not registered a registration serves with the serial number duplayed.

Simbil Simbil

2

The top box should have all the serial numbers you obtained when you installed SIABill on each computer.

The second box should have the SDABIII Measurger serial numbers for the computers on witch you installed SDABIII Measurger

The last box should have the SIMBIII Report serial numbers for the computers on witch you installed SIMBIII Reports

Remove PC Paris (C) inger. HamozeřiC . Marie । हेर्सन्तरी इन ill a

Click on License fees.

This is a text file listing all license fees and charges.

Please note these prices my not be correct at time of registration.

The registration software will automatically calculate all charges at the end of registration.

This is only an information screen no input is required

First three included with your SIMBE CD garter pact. Additional Computers US \$50 per computer enco SIMBIT Messenger US\$280 for the hilled forms ed by \$150 per additional computer, N IL AMOUNTS IN US DOLLARS. ₹. 12

10 . Registering

Substitute Sheet

Blmbill Blmbill

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Then olick on "Payment Method" Complete the method of payment You total cost will be displayed

If the amount payable is not carrect go back to Computers or ICCNIM Cards to correct

hen click on registor.

9

(costing | institutional) [ [124] Sove To Disk – will crease a fill to e-mail. This file should always be e-mailed even if posting. Print – Will print a hard copy for faxing or sending by past

The information on the registration file will be saved. When you need to squin purchase additional software or add Slant and this registration program by calishing on the Registration for because in Start, Programs in SIMBIL Registration. All your previously stored information will already be on the formal slowing you to add the additional Sim cards and/or programs you require. Submit the registration in the same manner as the original registration together with the additional payment.

To E-mail registration file.

Click Save to disk. You will be prompted to select a pack into which to save the registeration file. This should be a mailed to registeration file. This should be a mailed to registeration file.

Simbill Simbill

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#### Setting up the program

On receipt of the registration file double click on the registration from (the one next to you by e-mail). This will register your program (must be done on all computers).

If you have already registered and are adding additional components you will be sent a new registration file, Double click the file and it will register your additional SDABIII programs sad/or sim cards.

Click on the SIMBill Icon

The logon window will uppear with the war name "Administracs" Enter the password you seat to with your registration; this will log you on in "Administracs" access lovel. To re login wing "Administracs"

Type "Administrator" (Capital A) followed by your password Note: User names and pastwords are case sensitive.

You can now setup usernames and passwords see section on setting up new users.

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License fees

Information and prices

If you are paying your license foot by credit eard or bank transfer it is not required to print. If you are mailing a Cheque or draft please print out a copy of the registration form to excluse with your payment.

Upon receipt of this e-mail and cleared funds\* we will e-mail you back a registration file with further instructions.

on bonk, free of consultation and obserges. In the case of a Bank Chapse or Casher Clear I flow reache, it is to east of a composity operated Chapse is business along other reaches for the series on on suttinguist, New Zestiant and Sould Affacts Banks. It is east of a Chapse of Chapse is the Casher I when on a bonk of any other Cashery. When I denset by our bonk. In the case of a credit Card, on us obtaining an authorization from the merchant. Normally immediate. In the case of a bank transfer. Upon re

When you procleve the registration file this must be run on each computer you estut the threatilities thereful number to exist in the first instance for The same file is used for all computer and will only register the computer stella numbers and time eart anabour provided to but in the restriction form. It is possible to ded Computers and in Cardia at any time by requesting the registration form. The possible has well as card (CCID)'s and Computer serial numbers. For security reasons the pastword selected in my sub-exquent registration forms must be the same as in the limits Registration.

Simbili Simbili

Simbil Simbili

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Ucense fees . 13

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License Fees

For license fees please consult our web site WWW.SImbill.com The registration form will submatically calculate the license fees due, these fees subject to change at time of registration.

SIMBill - Starter Pack Includes

1 (One) Sim card reader

CD Rom Consisting SDABill program, SDABill Messenger, SDABill SDABill Reports

Licenses for 3 (Three) computers for SDABill not including SDABill Messenger licenses, SDABill Reports licenses or Sim Card licenses.

Additional SIMBiil Program Licenses

First 3 (Three) computers included with purchase of starter pack Additional computers require a case off license fee

SIMBill Messenger

Each computer requires a license

SIMBIII SIMBIII Reports

Each computer requires a license

Sim Cards

Each Simoard requires an annual license

Additional Sim Card Readers

Available on request

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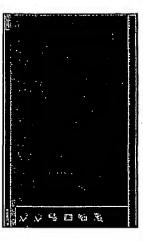
Users

Setting up passwords and user rights

Double click on the SPABIII Icon on your desktop. The logon window will appear.

Bater Administrator as the user name

Barr your paraword in the paraword box (this is the paraword you scat in on your registration form) GLek "OR"  $\,$ 



The screen will now have six loons down the left side

Green picture of sim card reader used for "RENT 81M"

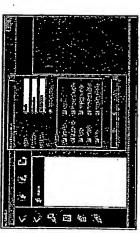
Simbill Simbili

Simbill Simbili

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Picture of a printed page with pen and? Used for "TARIFFS" Red picture of sim card reader used for "RETURN SIM" Picture of a gear and a typed page used for "SETTINGS" Picture of multi printed pages used for "LOGS" Picture of faces used for "USERS"

FIRST Click on "USERS" the bottom Icon of faces.



Three Icons will appear on the top of the window

I' New User

2" Delete User

3" User Properties.

A window will appear abowing the Login name Password and Expiry date as well as 10 boxes with specific access rights.

Now click on New User

Enter a user name and pusaword and expliy dute or you can reloct never expires them suffered to the right you want to satisfy. You can create another password with full administrator rights by selecting all boxes as well as nower expires.

Descriptions of User Rights

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This is a term used by us to describe the programming of a tim card with a uniff plan and every flads more customer span and every flads more customer and not early independent and also be trend. Each Sim must be programmed inhishly as un-programmed Sima will not work in the phone.

b) Return Slm

This is a term used by us to read the information off the sim card. This would include credit balance and itemized call dats record of calls made, as well as any additional information that was stored at time of "renal".

These are the minimum access rights any user abould have.

Rent Sim will enable the user to give out sim cards satign tariffs (if permitted in sothings, otherwise a default tariff is assigned) Assign a credit limit and capture all additional customer and sim card information.

Return Sim will enable the user to read information off the cards and print SIMBILI Reports or a customer invoice, showing all charges and outsomer information.

c) Tarlifs

This secent fight is only given to senior stuff that was permitted to create new triff plant are next extensive after half plant. More information on this can be found under Creating-Interfig plant, for more information on how to create and saw a turff plant see. "Creating turff plant,"

d) Settings

This secons right should only be given to senior staff that are permitted to change company information, tax rate or default tariff plans. For more information see "Entering Esqualt Settings"

spol (

This gives the usor access to the log files created on every rental, return and SMS created.

For more information see "Managing and Exporting log files"

f) Add Credit (SMS)

This gives the usor access to add credit to a sim card remotely over the air. This can be done with or without SMS Messenger See "Updating sim card by SMS".

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g) Write Credii This is the same as Add credii but overwrites instead of appending credii see "Updaing the carek by 2AG".

b) Write Teriff

This slows the user to remotely amend the briff plan on the size card, over the six. This can be done without "SAS Measurger" More take see "Opdating sine card by SAS". This access requires the tuer also has access rights to "uniff".

Once you have satigned for user tiphs and explyy click on "wl" then repeat until you have surigned for user rights. This must be toose on each compare that the user will have access. User will only see the forms they have access to be the compare and the change any user rights at any time with an Administrator password, which you must keep secure.

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# Default settings

# Entering the default settings

Enter your company or beamch name address telephone number and e-mail address. This can be different for each branch if you have external beamches or agent. This will be the information that appears on all invoices logs and SIMBHI Reports created by that computer.

On the right of the "settings"

Enter the COM port that the Mobile phone or Celtular modern is connected (If connected froe leave blank)

troo

Blmbiii Simbiii

Default settings - 19

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Enter the SMSC number of the network you are in e.g. Australia +61415011501 South Africa +27829129 or New Zealand +6421600600

NB. If you have not activated SIAGBII measurger and connected a Mobilia Phone or Chillur modern to early materagery and one have to expure the SIAGC or COM front If you have activated SIAG Metacager and installed a ceillular phone or Ceillular modern you must expire this information.

If required select a default tariff, if you select use default tariff this tariff will be used when reming out a sine without a choice of tariff plans. If toot selected the user will lest it set of evolable tariffs to allocate to that tim, over if the user decored tariff user fights.

The next box is default "Deposit".

If you caller as amount of money in this box it will default to that amount on each result, but give all user the option to change or transver it. An amount should only be cateroid in this box if you take a deposit of a usual amount on most result. This deposit will be declared from the inverties the think that of the deposit in set of caller illiant is A claim to the works of the other than of the deposit of the deposit of the deposit of \$1000 and a credit illuit of claim of other \$500 thing security for a bandest in all cases the client will only be take to make calls up to the credit.

The next box is the default "Credit Limit"

If you have a regular credit limit you give clients it is advisable to enter an amount into this field. As credit limit is the only mandatory field in the renal. If no amount is entered here you can satign a credit limit at time of rental.

The next box is "Rental Tariff"

Only enter an amount here if you charge a dulty resuld for Sim cards and handsess. If you enter an amount here or at time of resuld a dulty charge of this amount excluding GST or VAT will be charged on the customers lawsice but not deduced from their event limit.

The last box in this section is "OST"

Here you must enter your GST or VAT rate. Expressed in decimal format i.e. 0.10 for 10%.

Roador Information

Schect the COM port you have connected the stim card reader to. The type library and protocol may operate or which aim and relayer you are uning. For executiv reasons Ribrilli will only operate on certain Sim card readers supplied by us. These setting are set correct by default to the reader expirate to you and should only beed to be that eggl of you change to a different reader. For more information on seeking for different reader with our webble arms.

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20 . Default settings

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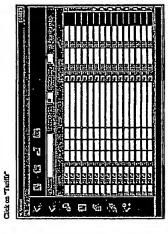
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#### Tariff plans

Creating new tariffs

This is the most circles, part of your early, as it is the proper that nearly the calls on the size of the many as you could undersharp so overcharp and have a dignamited client to pay perforing strained to this socious and cheek your suff program before uning it on clients.



Four loads will appear on the top of the window,

New tariff plan

Bimbii Simbii

Tariff plans • 21

Open tariff plan

Save tariff plan

SA.bin - for uses in South Africa

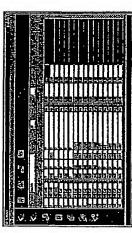
Supplied with your program there are three sample tariff planes.

AUS.bin - for uses in Australia

NZ.bin - for uses in New Zealand

Click on "Open Tariff Plan"

The above three options will appear select the file you wish to modify. For the purpose of this tutarial we will explain in detail the



You will see the above tariff table

Top line next to file name you will see "Seconds to Cycle" this is the billing oycle you are billing in example 30 second or 60 seconds (base are your only two options) select 30 or 60

Next to that bex is "Mintaum Cycles" This is the minimum cycles yer call charge i.e. you are billing in 30 second cycles with a minimum of one minute per call. In this case cuter 2 under minimum cycles. If you have no minimum enter

On the table the tariffs are numbered down the left maryin. Naxt to each number you can enter one harlif.

The first box on the tariff table is "MOCI" the next "MON" A list of MCC" and MCN's are included in this file see "MOBILE COUNTRY, NETWORK and EXIT CODES"

The next box is the call Typer, you have a choice of eight call types "MAC Call tations!", mobile originating call to a number in the same country as your borne neavork.

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"MT Call national", mobile terminating call. An incoming call while in the same country as your home network.

"MO Call International" mobile originating call to a country different to that of you known partwents.

"MT Call international" An incoming call when you are rouning that is logged into a network of a foreign county.

And the same four choices apply for SMS. Text messages sent or received

The next box is the barred box. You have two choices yes or no. If "no" is selected no calls of this type will be allowed.

The next is the pattern.

Here you will enter the different types of calls you are billing for.

The next box is "secess fee" only applicable if you charge a one time setup or connection cost.

The last box is the "sariff". This is the amount that will be charged for that type of eat jet cycle as set up above 30seconds or 60 seconds. If the call is less than the minimum cycles entered above the minimum number of cycles will be beharped.

Sample Tariff Plan

Lets enter a few tariffs to get the hang of programming uniffs.

For the propose of this example we will make VODA-FONB AUSTRALIA our home activect. The MCC (mobile country code) is 105 and the MXIC (mobile network code) is 7(all networks within Australia) the Esti code to make an immensional call out of Australia to 1011.

This information will be dependent of the country you are in .E.g. Now Zealand the MCC is 530 and South Africa is 653 too mobile network code can be enjared as I hall case but if you want to restrict calls to a specific network in the country you can enter the MMC e.g. Vodafone Australia 03, Vodacom South Africa 01

All this information is available for most GSM networks on this file see "Mobile county, network and exit codes"

Line I in the diagram above. In the call type MT SMS is relocated this is Mobile Terminating SMS we have put question marks the MCC MNC and Pattern and have not entered any access foe or tariff. Let's analyze the sample Aus.bin uniff plan and discuss bow to emend uniffs.

This will allow free incoming SMS's suywhere in the world. If you wanted to restrict incoming to only Australia we would replace the quantition mark in the MCC to SOS. Although there is no charge or no restrictions in this surfill into we will have to easier it as if the program does not find an applicable surfill this type will have to easier it as if the program does not find an applicable surfill this type.

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of call will be barred. So even to allow free calls we have to program the call. type as free.

Lha 2. MO SMS , Here we have nerified MO SMS for use while only in Australie at a rate of 50.76 by extering this in a Access files instead of the Tariff files this is a flat rate and no per cycle rate is topplicable.

In line 3 we have again programmed MO SMS but instead of 505 in the MCC we have placed a Question mark and changes the suffix 53.99 this will charge to be suffix o \$1.99 this will charge to be suffix to \$1.99 this will charge to you do both which will be logged into may notwork anywhere in the world obther than Australia.

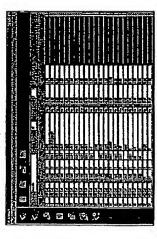
Line 4. MT Call, While in Australia are free but again this has to be programmed in order to allow incoming calls in Australia.

Line 5. MT Call While in New Zealand the different between these two is we have replaced the MCC with the New Zealand country code 530 instead of 505 and imposed a charge.

Line 6 MT Call we have again replaced the MCC this time with a Quantion Mark meaning and County has the son programmed will by an incoming charge in this case 54 to per cycle. You can catter as many specific county occles and rate as a many specific county occles and rate as a many specific county occles and rate as a will card tailf that is a Quarico Mark in the County occle and this suffic should be high enough to cover the highest incoming returning call rate.

Line 7-11. this deals with calls to specific numbers that are free if dilled while in Australia.

Line 12-23, this deals with International calls to specific countries at specified rates if called from Australia. Except Line 18



Line 18. This is a free call to a specific number

Line 26. This is calls to any other international number not already specified here we have added an access fee as well as a teriff the access fee will be a fag. fall charge on connection and the per cycle tariff will be added to this.

Line 27-33. Examples of calls to specific numbers at various tariffs.

Line 34. This is the default of any local call in Australia not abready programmed Line 35. This is the default of any international call if dialed while reaming in New Zealand.

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Line 36. This is the default cost of any local call within New Zealand while reaming in New Zealand.

the 37. This is a free Emergency call disied from any country in the world. Line 18, This is the default call rate for any call made while roaming to any country not programmed.

Important Notes on tariffing.

You can add as many tariffs as you like as long as you keep within the 50 lines of available tariffs.

It's not important in which order you capture the tariffs, as the program will suto

It is important to have wild card tatiff for every type of call and then program the exceptions to avoid buring unperformed calls.

You must always program a default of the six main groups

MO SMS

MT SMS

MO Call - Local

MT Call - Local

MO Call - International

MT Call - While Roaming

Saving a tariff plan

Once you have created all the tariffs you require you can same and save this.

To de this, Lide cost the 'Tariff' from the first the pictor of a computer of a computer and clief. This is the faw Tariff' fruit from A window will pop up with a path that the default fam for saming tariff. You will be stated to care a same for this Tariff' fruit. You can call it my tames you choose, Default Tariff' Recard I tariff. Recard Tariff. Speal Tariff' Recard Tariff. Speal Tariff.

If you have more than one computer, doing renal and returns, you must copy this built in the computer. To copy, copy the entire sub directory onto a Goppy disk then copy from this clik to the same directory on all the other computers. You must renarmable that if you make changes to any tariff plus you must copy the changes to all computers.

Once you have named and saved a tariff plan you can go back to Settings to make this a default tariff, if it is the only sariff you use.

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# **RENTING SIMS**

# PROGRAMING THE SIM CARD

A sim card has to be "rented" before it will operate on the Simbill system. To do this you must first have created a tariff plan and set your default estings.

Place the sim card in the sim card reader and click on the green sim card reader kon (up let) If you have not carrier of a default tariff plan by checking the "use default tariff square" is list of a valiable artiff will appear for you to select one. If you have selected to use a default tariff or once you have selected a tariff the following customer information window will appear.

The first line ice id will be automatically read off the sim card.

The maining is the mobile phone number attached to this sim card. If you have previously remained out this sim card the number will definit to the last number used on this sim.

Simbili generates a unique agreement munher for each transction but you can overnight this to you own agreement or reference number.

The Customer name and address are optional information fields for invoice printing and reports. The credit card info is also optional.

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The Deposit field is used only if the outtomer makes a cash deposit. This amount will credit on the outtomers involve as a payment.

The credit limit is the amount of credit you are allowing for calls only on this recent. Daily charges rach as places recent are not deducted from the credit limit now are are any OST or Vet, so make provision for these charges when satigning a credit limit.

Rezel striff will charge a daily charge of this amount on the invoice excluding say saxes. This is not deducted off the credit limit. And will only be on fall days, s phone rested and returned on the same date will not facur a retail charge.

Once you have completed the customer information click OK.

This information will be stared on the sim card. You will see a grean line aboving the progress until the card is will ever when the world "Sim Rented" will appear on the left of the bottom line. You can now remove the Sim card and place it in the mobile phone and sea before supplying to customer.

#### RETURNING A SIM

Place the Sim card into the sim card reader and olick on the red sim card reader sion. Second from the top on the left, The program will read the sim card and daiply a detailed invoice on the serons with a pop up menage." Do you with to make a payment or related sowe? "You can thip this by clicking "too" and come back to this later by clicking the red return from again.



If the customer is making a pergenent on return citely was and enter the uncount and pergene from the landamation is used in the report program for eath, and second country. If you can change any of the customer's information enter as such as substant as the relaptone number etc. By clicking on the past and per ions on the boy left.

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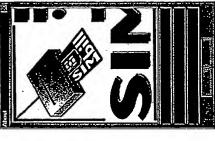
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The serial number is displayed on the centerline. Note this number for registration.

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This serial number will be different on each computer. Ewn Unstalled from the same C.D.



By proceeding with this registration you are deemed to have read, and egreed to, the serms and conditions of the license agreement, and actroowledged SIMBIL's patent and Copyright.

On the bottom of this screen you will too a serial number WAITE THIS DOWN IT you are installing SIMBIII on several computers each will have a unique serial number WHs down all the serial number WHs down all the serial number or you will need them to register.

Close the about window by elicking on the top right X then elick on File and



Simbill Simbill

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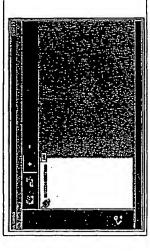
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You now have a screen with only one ioon (Simeard reader) if you do not have the ICCDD number of your that cards (required to complished the registration form); you can optain the ICCDD numbers of each Sinkard in the following way. (You do not have to be logged in or registered to parform this function).

- Insert Simourd into card reader and click the icon
- Click on the green Add from, This will summatically read the IOCID of the nin card and display the ICCID, for additional sincered just place new Sincered into reader and click Plus. A list of all your ICCID's will be displayed.
  - To remove any IOCID's you do not want to be listed select the IOCID and click the Red remove from
- Once you have listed all the ICCID's save than to a file by clicking the service notes to the Add ixon. This file can be attached to your registration form by just typing see attached file in your fist of ICCID's on the registration form.



To obtain the "SIMBill Messenger" product serial number

This serial number is the same as your SDABIII serial number On the main SIMBIII program mean Click bolp , About and the serial number will be displayed.

To obtain the "SIMBill Reports" product serial number Ulnstalled

Click on the SDABiil Reports Ionn located in "Start", Programs, SDABiil reports.

You will be stack for a experiention key (vice du toch kew her key at this time).

Above this is the serial anmber you will need to obtain the registration key with this down. You need to repeat this process on every computer you wish to opents SDABIII Reports on, as the serial number will be different on each computer.

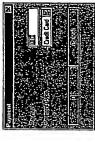
Reboot your computer to initialize the sim reader at any time prior to first use of the reader.

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The customer information will appear and allow you to edit certain fields only. Deposit and Credit limit cannot be edited.

To paint an invoice click on the paint loca, second from left on top. This will perform a prior in a through X vot can repriat a wifuse before say time before sear trend it or the time the information causot be retrieved from the nin card. You can retrieve all the information causot be retrieved from the nin card. You can retrieve all the information of the retail, there may deal the apprend that the hough the report program at any fame. All information is unformed to the one of the creat, in the manufacture is unformed to the retail or return. Please cause that all from high from brond because because that all from high from reports of all that.

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#### Managing log files

Each time you do a RENTAL or RETURN or update a sim over the air by SMS a log is created of this transaction.

These logs are stored in the Logs directory Cytrogram files/SDABBILL. To do be accessed by selecting the Logs Icon on the mail serven of SDABILL. To do this you must have user access to LOGS.

Logs are named by the date and time they were created as well as a prefix of REWT, RETURN or SMS to describe the transaction. Below is an example of a REWT log.



As you can see this gives all the information of that rental including time, date and user as well as a unique reference number or rental agreement number. Similarly a Return log (Pictured below) will have all the same information but

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include the return date and time, location and user that did the return as well as all the cell information including ALL! Iterated billings, the included in the return log will be any payment make at time of return had methods of such payment. Each and will be listed separately priving number dialed, duration and cost of each cell, as well as a summary and buds.



Bolow is an example of an SMS log; An SMS log is created each time a credit is added. Written or tariff change over the air.



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These logs can be imported to any accounting program, database or spreadabeel from where you can create your own history.

We offer an integrated darbase and report writer SDADIII Reports that is included on your express Or. If itsulled der SDADIII Reports will suscensitatily import till the Log lifts and del Whit hall give you then of SDADIII Reports and then planted of all eliginate and calls. This will give be not do a hallfur processes consolidated involved, GST or VAT SDABII Reports reported to the source of the control of the control of the control of the source of the sourc

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The Report Menu

To open SIMBIII Reports click Start Programs SIMBIII Reports

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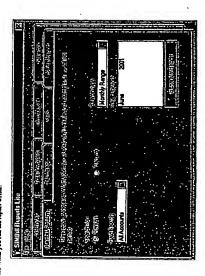
SIMBIII Reports Lite User Manual

Introduction

SIMBill Reports Lite is a comprehensive report writer for use with SIMBill and its associated products.

Utilizing your existing SIMBUI data, this program creates useful report for unditing and bookkeeping purposes, and incorportes advanced transaction searching capabilities to detect any potentially fraudulest uages.

To ensure you have secess to the most up to date information, all of your SDABIII log files are sutomatically imposted when you run the report writer.



There are eight report that can be generated from your SIABill data, all of which can be selected by elitaking the appropriate tab in the main sereca.

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Date Ranges

While each report has its own individual options and features, all require a time period from which to obtain their results.

When selecting a time period for a report, you have the following two options:

Monthly Range - allows you to select a range of whole months (i.e. July 2000 to June 2001).
 Only those months found in the SDABill data will be displayed for convenience.

Specific Range - allows selection of a specific date range (i.e. 05/06/2000 to 13/07/2001)

These two modes have been included to provide both convenience and fanihility. The Monthly Range allows report to be generated over whole, monthly nages.

The specific range is designed to allow more detailed, date specific ranges for advanced suditing purposes.

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# Report Sorting

Onco generated, all reports can be sorted by various fields, including Date, Agent, Location, MSISDN and ICCID, depending on the specific report.

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To sort by a specific column, clirk on the beater of that column (La. Agen), and the report will automatically re-not the information.

#### Printing

# Report Exporting

The reports are exportable to a variety of formats for use with other database or billing systems. To export a report, simply click on the Export Report button and select a format.

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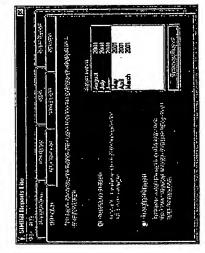
#### Reports Available

The following is a listing of all available reports and the features of each:

#### GST/VAT Report

Generaliza a report of total income and any tax charged for a specified period. This report is often necessary to secretain total tax liabilities for the income generated.

- Summary Report provides a basic breakdown of income into revenue and ux charged.
- Detailed Report provides the same details as the summary, along with a breakdown litting of
  each individual income transaction for the period.



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Total Invoiced Report

Summary Report - provides a busic breakdown of income into call charges, rental charges and tax charged.

Generates a report of total income divided into inclivitatal catagories, sa wall sa say tax charged for a specified period. This report determinas your setnal sources of income, reporting, both renial and call charges.

Detailed Report - provides the same details as the summary, along with a breakdown listing of
each individual income transcriou for the period.

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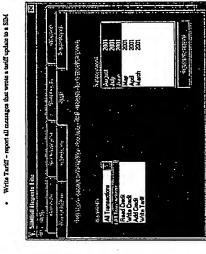
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SMS Report

Occession a report of all over-the-air SMS Updates sent in a specified period. These updates allow various changes to be made to the SIM card mid-reach, and therefore may affect the final credit limit.

There are several options for transaction searching. These are:

- All transactions report all SMS transactions
- . Read Credit report all messages that queried a SBA's credit limit
- Write Credit report all messages that wrote a new credit limit to a SIM
- . Add Credit report all messages that added credit to a SDA



AG' - SMS Report

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Rental/Return Report

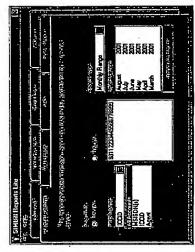
This report allows you to retrieve details about specific rentals or returns for a certain period.

There are two main search options for this report, being:

- Restitis generates a Remai Report. Details include individual remai dates, credit limits and daily remai tariff.
- Raturns generates s Renum Report. Details include individual rental and return dates, total rental
  charges, total call charges, total OSTVAT charged (if applicable)

The report may be generated from the following fields:

- All Accounts report all transactions
- MSISDN report transactions with selected MSISDN(s)
- ICCID report transactions with selected ICCID(s)
- Agent report transactions by selected Agent(s)



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Invoices may be re-printed for accounts that have a matching Return Log, and is therefore not possible for Renul Logs.

Individual or group invoisse can be re-printed by highlighling the required accounts and clieking Generals invoiss. This forms allows a group of invoices for a specified period to be sent to larger account holders for their own infartal bookkeepin.

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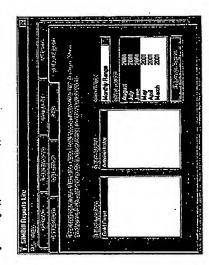
28

Sales Report

Generales a report about total income received at time of return. Details of eath and credit eard payments are available, broken down into individual locations and agents for auditing purposes.

Location - generate report for selected Location(s)

Agent - use Agent(s) at selected Location(s)



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Network Calls Report

-Generates a sport of total network charges for a range of MNISDNs over a specified period, as well as the numbers dialled, call durations and network references.

This is where the total cost of calls charged to you by your network can be ascertained.

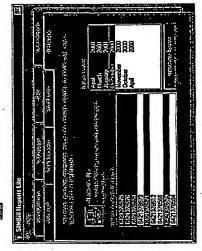
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This is the Import Calls button

Firstly a Network Call Log file must be specified. Click on the Import Calls Butter, and select a source file. Network logs may be stored in any order or location, however they used to be imported before any Network reports an generated.

When generaling the Network Calls Report, the following must be specified:

MSISDN - select a single number or an entire range from which to extract costing information and call
deaths



All Network Call Logs must be in the following comms-delimited forms

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ls Report

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MSISDN Number Dialled Date (YYYY-Add-1D) or YYYY/ADA/DD) The (24k) Durbion (seconds) Cost (i.e. 2.45, NOT \$2.45) Referens

Please note that the format of your Network file must be the same as this one:

6421378575, 0011642170070, 2001-04-20, 22.122.19, 173.0, 2.35, 53011100423118 6421378575, 0011642170070, 2001-03-15, 20.26:09, 61.0, 0.89, 530011100423118 6421378575, 0011642170070, 2001-03-24, 21.28:09, 128.0, 5.64, 530011100423118

There may or may not be a plus (+) in front of the MSISDN.

i.e. +6421378575 or 6421378575 are both acceptable.

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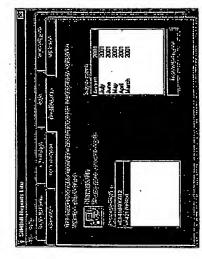
Profit/Loss Report

Generaliza a report of total conta and income for a selected range of MSISDNs by comparing Network call charges to Reams Logs.

Select the Network Log file to use by eliciting the import button and selecting the appropriate file. (See Network Calls Report for more information on Network Call Logs and their format.)

This report allows you to search by:

MSISDN - ealect a single number or an entire range from which to extract costing information, income levels and total profit.



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Call Usage Report

This comprehensive report provides advanced call tracing facilities for accounting and security purposes.

The reports are generated using the call data generated at time of return from each account in SDABIII.

There are four available searches:

- All calls TO this MSISDN this report show all calls made to this MSISDN from all other accounts
- All calls FROM this MSISDN this report abows all calls made from this account
- . Anyone who CALLED this number this report shows all accounts that distilled this number
- Anyons who RECEIVED this number this report shows all accounts that received say calls from this number

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Cell Usage Raport + #

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#### S

Updating files by SMS over the air

You can update tim cards over the air by SMS with the SIMBill program. To do this you must have SMS on you was level. SIMBill messenger and a wasp modern or Nobia data suits and phonos intradiced. All over the air updates require an SMS to be sent. For more information on sending SMS's please see section "SMS Messenger".

Click on the SMS menn option in the SIMBill window. A list of two options will pop down.

ADD CREDIT this allows you to append credit to the existing credit available.

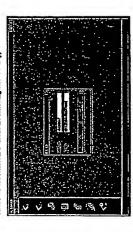
WRITE CREDIT this will overwrite the credit behance to this amount insteadly.
You could also use this to overwrite the credit to 0.00,
berring any outgoing calls

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Click SMS and select ADD Credit the following screen will appear First try "ADD CREDIT



Exist the mobile number vou are updating in the international format + Country code followed by number c.g. OHHHHHH would be existed as +61414141414 in Australia.

You will also be saked for the ICCD number of the sim (we work on sim numbers). If you do not know the ICCD number just book at any log file of that mobile number.

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You will then be saked for an amount. Enter the amount you with to sad, and elicit on "OR". A Mentage that been created that will, submentically be remainted with out our further action on your part, and a log file areasted, provided you have ifecaused SDABIII measurage and have connected a ceillust modean of phone to your computer too section SDABIII Mesterger.

If you have not resisted SDABII Messeager and attached a collular phone Wasp modem to your computer the message will not automatically be sen If the menuge is sent more than once it will only be credited once, if the menuge is sent to the incorrect sim or phane it will not be credited.

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# Sending SMS's

# Updating Sim card over the air

# **SMS Messenger**

# Installing SMS Messenger

SMS Messenger is successfully insulied when you insuli SIMBill to serive it sli you need to do is specify license SMS Messenger on your registration form. When you receive the registration file that is copied onto your computer this will activate SIMBIII Mosterger on your system with no additional installation. incinded with SIMBIII messenger is SMS Buddy. This seables you to send any SMS to any mobile phone from your computer. You do not need an Internet connection for this. You will need a Wasp celtaiar modem Available from you SIMBill dealer.

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# **Network Codes**

# Network & Country codes

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	Powertel	310 27		1900	011
	Wireless 2000	310 11		1900	011
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# Trouble shooting

Most common problems

For any help or problem please e-mail help@ijmbill.com and we will reply promptly.

Trouble shooting

Most common problems

When you try to log in you get the message "Program expired".

Either the expiry date has arrived and you did not renew or

The settings on your computer have changed or You have installed a new hard drive on your computer.

E-mail or the sproblem together with the eard immber of the program and your postword, to get the send insuber. Own ELMBill click on help then shoult the certal number will be displayed. We will tend you a nor registration file by mail. When you receive this file just double click it and the problem will be solved.

When you insert a sim card you get the message "unregistered Sim Card"

You have received new Sim Cards and not registered them.

Action

lesert the CD supplied click on the registration foon and add the new Sim Card ICCID numbers and submit to us, we will send you a new registration file, to install just click on it and the new tim will now be working.

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VAT Value added Tax

**Glossary of Terms** 

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GST

Goods and Services Tax

SMS

Local area network

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MSISDN Compact Disk

Symbol for international call, country code or exit code

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Simbili Simbil

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CLAIMS:

A method of billing the usage of mobile telephones comprising the steps of:

(a) entering a user program onto a SIM card,

S

(b) supplying a hirer with the programed SIM card and software required for rendering accounts and controlling the use of the mobile telephones upon the termination of a hire period.

A method as claimed in claim 1 wherein the software enables the hirer or to set tariffs and credit limits, independently of network suppliers. A method as claimed in claim 1 the user program and software enables the hirer to add or deduct credit over the air using SMS systems. ព

A method as claimed in claim 1 wherein the user program provides the hirer with the ability to;

(a) create and alter credit limits,

(b) store customer information,

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(c) set tariffs for calls,

(d) block disallowed calls.

A method as claimed in claim 4 wherein the user program provides the hirer with the ability to allow free calls at its discretion. κί

A SIM card resident cellular phone billing system for performing the method of any one claims 1 to 5 the system comprising; <u>ن</u> 20

(a) a host processor unit having a P.C. application, and

(b) a SIM card reading apparatus adapted to access and applet associated with the SIM card, characterised in that the host processor at point of issue is programmable using the P.C.

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application to control the use of a ceilular phone and on return of the cellular phone to its point of issue, and re entry of the SIM card to the SIM card reader, to read the SIM card and generate information as to its usage. A billing system as claimed in claim 6 wherein the program of the host processor can transfer information on call costs to the SIM card. ۲.

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A billing system as claimed in claim 6 or 7 wherein the program of the host processor can transfer information relating to the telephone user to the æ

SIM card.

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A billing system as claimed in claim 6 wherein the program of the host processor can read information stored on the SIM card relating to calls made, numbers dialed and tariffs associated with the calls. A billing system as claimed in any one of claims 6 to 9 including.a cellular phone modem which enables over the air programming and adding or amending credit balances of a SIM card. 6.

FIG 2 **Central Company** Companies Details for Invoice & Itemized billing Enter the Customers details FIG 1

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tent the Sim Card

Yes

Barred Yes/No

Call Barrad

g

Yes

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Customer

FIG 3

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Internations	
REPORT	
INTERNATIONAL SEARCE B	

	International searce report		International application No. PCT/AU01/01423
¥	CLASSIFICATION OF SUBJECT MATTER		
Ef. Ci. 7:	но4м 15/00, но4м 17/00, по4Q 7/32		
According to	According to International Patent Classification (PC) or to both national classification and PPC	thonal classification and IPC	
ø.	FIELDS SEARCHED		
Minimum docu	Minimum documentsion searched (classification system followed by classification symbols)	sification symbols)	
Documentation	Documentation scarched other than minimum documentation to the extent that such documents are included in the flaids searched	t that such documents are includ	d in the fields scarched
Electronic data WPAT: KED	Excremic data base compulsed during the international search (name of data base and, where practicable, search terms used) WPAT: KEYWORDS-PHONE, RENT, HIRB, BILL, ACCOUNT, CHARGE, SIM, MOBILE, AND SIMILAR.	ts base and, where practicable, a	eerch terms used) IOBILB AND SIMILAR
ن	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Ciation of document, with indication, where appropriate, of the relevant passages	priste, of the relevant passage	Relevant to claim No.
<b>×</b>	Derwent Abstract Accession No. 2000-443961/39, Class TO4, DE 200 04 892 U1 (SAUER) 31 MAY 2000 & US 2001/0023180 Al 20 SEPTEMBER 2001 Whole document	1/39, Class T04,	1-10
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×	Further documents are listed in the continuation of Box C	×	See patent family sunex
Y. docum. T. docum.	Special categories of cited documents:  questions defining the greent exts of the art which is not considered to be of particular relevance caries upolication or patent but published on or after 7% and international filing date obcument which my throw Cache on priority claim(s) obcument which my throw Cache or priority claim(s) over which is clied to exablish the publication date of another claims or order special reason (as specified) obcument interface to an and disclosure, use, exhibition or other means of the formation of the claim of the cl	later document published after the international filing de priority date and not in conflict with the application but understand the particulation throughout ymarklying the invent document of particular reference; the climed invention be considered novel or cannot be considered to involve theority term your bot document is taken alone document of particular reference; the climed invention to considered the proper and proper and proper and the conducted with one or motive and document, such concerning with one combined with the property of the state of the set document member of the same petern family	ther document published after the international filling date or priority date and not in conflict with the application but cited to undertaken the principle of theory undertaken the principle of theory undertaken the principle of the destinated in the retire or cannot be considered to note or cannot be considered to involve an inventive tarp whom the document is that a about document of particular reference; the fallings and and occurred or particular reference; the fallings investigated to conclude the survey of the fallings investigated to conclude the survey when the document is concluded with one or more other and document is occurred with one or more other and document is occurred member of the same patent family
Date of the actual corra	oletion of the international search	Date of mailing of the international scarch report $-2$ $FEB$ $2007$	al search report 2 FEB 2002
Name and mail	ess of the ISA/AU	Authorized officer	
AUSTRALLAN PO BOX 200, E-mail address Pacsimile No.	AUSTRALLAN FATUR 1 OFFICE PPO BOXY 200, WODER ACT 2606, AUSTRALIA Equal address pedigipaturals govan Pacitaria (02) 6245 3929	R.W.J. FINZI Telephone No: (02) 6283 2213	

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No. PCT/AU01/01423

This Amex lists the known "A" publication level patent family members relating to the patent documents oited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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